

FIGURE 1

Pseudomonas aeruginosa

pbra-v	: MIEPVSTERCDSPILLGAFVNDRILVKIAARTITGCRSRAEDVVQDAYFRLQSGAPITSSSEKAQQLSYLFQI	: 70
pbra	: MIEQVSTCDSPILLGAFVNDRILVKIAARTITGCRSRAEDVVQDAYFRLQSGAPITSSSEKAQQLSYLFQI	: 70
pvds	: MSEQSTPRCDTPLLQAFVNDRILVKIAARTITGCRSRAEDVVQDAYFRLQSGAPITSSSEKAQQLSYLFQI	: 70
pfrt	: MAEQSTCDSPILLGAFVNDRSILVKIAARTITGCRSRAEDVVQDAYFRLQSGAPITSSSEKAQQLSYLFQI	: 70
* 20 * 40 * 60 *		
pbra-v	: VRNLAIHDHYRKQALEEKYSGTEEEGLNVVIVIGASPERSHININLENIAASALIOLPQTRTRIAFEMYRLHG	: 140
pbra	: VRNLAIHDHYRKQALEEKYSGTEEEGLNVVIVIGASPERSHININLENIAASALIOLPQTRTRIAFEMYRLHG	: 140
pvds	: VRNLAIHDHYRKQALEEKYSGTEEEGLNVVIVIGASPERSHININLENIAASALIOLPQTRTRIAFEMYRLHG	: 140
pfrt	: VRNLAIHDHYRKQALEEKYSGTEEEGLNVVIVIGASPERSHININLENIAASALIOLPQTRTRIAFEMYRLHG	: 140
* 80 * 100 * 120 * 140 *		
pbra-v	: VRNLAIHDHYRKQALEEKYSGTEEEGLNVVIVIGASPERSHININLENIAASALIOLPQTRTRIAFEMYRLHG	: 140
pbra	: VRNLAIHDHYRKQALEEKYSGTEEEGLNVVIVIGASPERSHININLENIAASALIOLPQTRTRIAFEMYRLHG	: 140
pvds	: VRNLAIHDHYRKQALEEKYSGTEEEGLNVVIVIGASPERSHININLENIAASALIOLPQTRTRIAFEMYRLHG	: 140
pfrt	: VRNLAIHDHYRKQALEEKYSGTEEEGLNVVIVIGASPERSHININLENIAASALIOLPQTRTRIAFEMYRLHG	: 140
* 160 * 180 *		
pbra-v	: VPQKDIAKELGVSPTLVNFMIRDALVHCRKVSSEHSD---[F]FAR-RV : 183	
pbra	: VPQKDIAKELGVSPTLVNFMIRDALVHCRKVSSEHSD---AVAVGK : 184	
pvds	: VPQKDIAKELGVSPTLVNFMIRDALVHCRKVTAEAOGDNVTHLSANR : 187	
pfrt	: VPQKDIAKELGVSPTLVNFMIRDALVHCRVSAKTANRQV----- : 176	
* 180 *		
[]		

Variable C-terminus

FIGURE 2

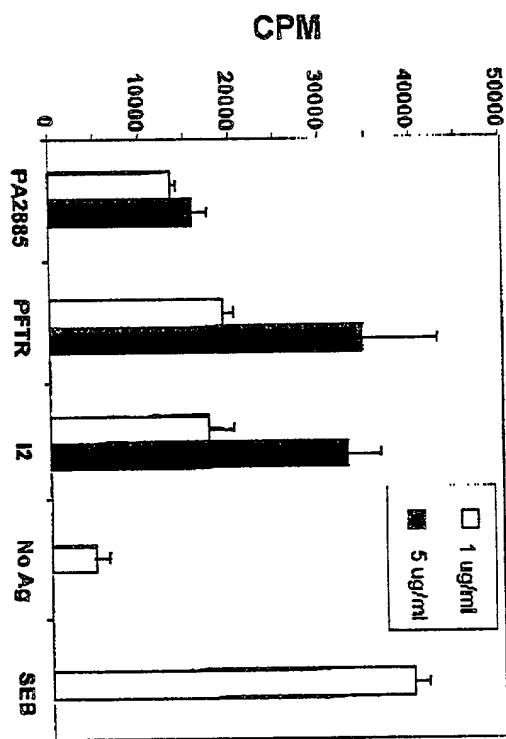


FIGURE 3

Inventors: Braun et al.
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atgacggaaccagtatccacacaggcaggtgcgattcacccttctccaggcggtcgacaaatcg
actgattctggtaagatcgccggccgtatcaccgggtgccgctccgcggaaagacgtggtgc
aggacgcctacttccggctgcagtcggcgccgaccatcacctcatcgtaaggcccaactgagt
tatctgtttcagatcgtaacacctggcgatcgatcattaccgcaagcaggccctggagctcaa
atactccggaccgaagaggaaggctgaatgtggttattcacggcgcttcaccggaaacctcgc
acatcaattcaacaccctggaaaacatcgccgacgcccgtacgcaactgccccagcgcacccgc
tacgcgttcgagatgtaccgcttgcattgcgtgcggcattgcgtgcattgcgtgcagggtgtcggca
gtctccgaccttggtaacttcatgattcgcatgcgtgcattgcgtgcattgcgtgcagggtgtcggca
gtcatagcgatacgttgcggcggtttaa

FIGURE 4A

MTEPVSTGRCDSPLLQAFVDNRLILVKIAARITGCRSRAEDVVQDAYFRIQSAPITSSFKAQLS
YLFQIVRNLAIDHYRKQALELKYSGTTEEGLNVVIHGASPETSHINFNTLENIADALTQLPQRT
YAFEMYRLHGVPQKDIAKELGVSPTLVNFMIRDALVHCRKVSGSHSDTFARRV

FIGURE 4B

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ATGCGCACCATGGTCGACAGTGGCCAATTGACCGACCCGAGAGCGCCCGGGCAAGTTGCTGCA
AACCGCGGCTCATCTGTTCGCAACAAGGGTTCGAGCGCACCACCGTGCGAGATCTGGCCAGCG
CCGTGGGCATCCAGTCCGGCAGCATCTTCATCACTCAAGAGCAAGGATGAGATATTGCGTGCC
GTGATGGAGGAAACCACCCATTACAACACCGCGATGATGCGCGCTTCACTGGAAGAAGCGAGCAC
GGTGCCGAACCGTGCTGGCGCTGATCCGCTGCAAGTTGCAGTCGATCATGGCGGCAGTGGCG
AGGCCATGGCGGTGCTGGTCTACGAATGGCGCTCGCTGTCGGCCGAAGGCCAGGCACGTGCTG
GCCCTGCGTGACGTGTATGAGCAGATCTGGTTGCAGGTACTGGCGAGGCCAAGGCCGCTGGCTA
CATCCGGGCGACGTGTTATTACCCGGCGCTCCTCACCGGGCCTATCCTGGACCACCACt
GGTTCGTGCCAAGGCAGCCTGACCCTTGAGGAGTTGGCCGAAGAGGCCttgtgaTggGCTG
AAGTCGGACTGA

FIGURE 5A

MRTMVDSGQLTDPESARGKLLQTA AHLFRNKGFERTTVRDLASAVGIOSGSIFHHFKSKDEILRA
VMEETTHYNTAMMRASLEEASTVRERVLALIRCKLOSIMGGSGEAMAVLVYEWRSLSAEGQAHVL
ALRDVYEQIWLQVLGEAKAAGYI**RGDV**FITRRFLTGALSWTWFRAQGSLTLEELAEEALLMVL
KSD

FIGURE 5B

1 cgacggcccc ggctggtctg tttgagttga gggtgcaggt catgcgcag caacacggcg
61 attttcagcg ggtatgtgcgc gttatgcgcag gccgcgttgca gggcggcggc gcaggcttgg
121 ggggtgatac caccggcatt gctgatcacc cggatgcctt ggcgcgtggat atccgcccgc
181 aggggtgtca gcacccgtac aaaatccgtg gcgttaaccgg cttggggtc tttcaggcgg
241 gcaccggcga ggatcgacag ggtgacttcc gcgaggtaat cgaacaccag gtaatccaag
301 gcaccggccct gcaccaattt ggcggcggcg gtgcagaatgtg cgcggcggaa ggcgcgtggcg
361 cagccgatac gtaccgttcc gctcatgaga aatccttcc ccaagggtcg gtgcgcagac
421 taccaagcaa ggcgttgggt tggtaactcc agtcacaatgt tttacccaag cgcttgcgtt
481 ggtggcagtc acggcctaaa ttggccggcca agacgcacatgt agacgtgaag gagagcagca
541 tggatgagca caaaggccctg ggggtgatgc gcacccatggcgt cgcacgtggc caattgaccg
601 acccccgagag cgcccgccgc aagttgcgtc aaaccgcggc tcatctgttt cgcacacaagg
661 gtttcgagcg caccaccgtg cgagatctgg ccagcgcggcgt gggcatccag tccggcagca
721 tctttcatca cttaaagagc aaggatgaga tattgcgtgc cgtgatggag gaaaccaccc
781 attacaacac cgcgatgtatg cgccgttccac tggagaaga gggcgcgttgc cgcgaacgcg
841 tgctggcgct gatccgctgc aagttgcagt cgatcatggg cggcagtgcc gaggccatgg
901 cgggtctgtt ctacgaatgg cgctcgctgt cggccgaagg ccaggccgcac gtgcgtggcc
961 tgcgtgacgt gtatgagcg atctgggtgc aggtactggg cgaggccaa ggcgcgtggct
1021 acatccgggg cgacgtgttt attaccggc gcttccctac cggggcctta tcctggacca
1081 ccacctgttt tcgtgcccgg ggcagctga cccttgagga gttggccgaa gaggccctgt
1141 tggatgggtct gaagtcggac tgaggcgcaaa gttattaaatt tgctggcgaa agttgtctcc
1201 cccaataaaaa acgccttagct tatccgcattt gaaatcttca acgggtgtgt cctcgatgtt
1261 ttcgcctatgg cggtggctg caggacttac tttatggca ctgggcaccc cccgcgtggac
1321 gcaggctgtt gccgcgcagt tggtgagaat cggcgcggcg cattttccgc cctacaccgt
1381 acgcctgtaa caaggcgccg acaccgggtt gctggcccaa ttggtcgagg cgttgaacgc
1441 tgcgcacacc gattaccatgt ttgtgggtgtt gcttacccgcg atacccgcgc gtttgcgtga
1501 cttcgagcaaa ggccgggtcg acatggcgat cttcgaaaac ccgtccctgg gttggcagaa
1561 tattgcccattt accagtgttgc atatggggctt gaaatgcggg agatttttgt cgcctcgcgt
1621 cagcccggtc ggcaccagag ttatcccttcc gacccgcaccc gaaaggctgg cggatttc
1681 cgggtatcac tatccctttt ctgacttcaa tcccgatccc aagaacatgc cgacgtttc
1741 aacgcgcacgt tgacccatctt ccatgcacatgt aatctgtga tggttgcgtc tgggcgtgc
1801 gatattgcgc tgggttaccccg ctgcgtacccgc aatgtattca tggtgccgaa cgcggacatg
1861 gcggggcagt ttttgggtgtc ggagcgatattt gaccagggtt atcaccacta cgcgttgc
1921 cgnccaaggc acccgatcac tggccggcg tttggccgaa ctgcgtcaatgt ctgcgcac
1981 agtggccaga tgctgaagat ttttggccg ttttgcgttgc aatgtgcgc ggtggccctaa
2041 ggtcttagta agtaaaatcc ttccggctca gttggatcaaa ctgtggaaagc tggcttgc
2101 ggcgtggccg cctgacagacc gacacagatt aattgtatgtt gatgcgcgc gatccaaatgt
2161 gggagcttgg ctgcctgcg aagacggcctt gacagtcaac acagttggc cgtgtacata
2221 tccatccctt gcgtaacgg gctacttgg gttccgcctt tacagcggctt cactttggaa
2281 aagcgcaaaa gtaagcaaaa cgctcttgc ccaccactcg gcacccgcgc aggtcggt
2341 tgcccgtataat ccgcgcgttgc tttgggggc cggccacgcg catccatgcg cggggcggc
2401 aaacggatcc ctggccgggtt acccccccaccc tccctgtcg aattccggcc agcgtggtt
2461 aacggggcgc ctaagatcaa aagccagatc aagatcacaa gcacatcaag atcacaagca
2521 gatcaagatc acaagcgatc caagatcaca agcagatcaa gatcaagagc gggctcgctt
2581 cgcatcgtag tttccgtgttgc gcccgttacc cccatatgtcg ggcgtggatt aaacccgc
2641 cgcaaaacgtt tcgttatgtac tggccgacac ctgcggccaa tgcaccacgc catcgcaat
2701 catgaagttc accaagggtcg gagacacccca aagctccctt ggcgtgttctt tttggccac
2761 gccatgcaccccg cggatccatctt cgaacgcgttgc gcccgttgc tggggcgtt ggcgttgc
2821 gtcggcgatgt tttcccgatgt tggtaattt gatgtgcgttgc gttccggat tggccgttgc
2881 aataaccaca ttcaaggctt cccatccgtt cccggatgtt ttgagctcca gggccctgtt
2941 gcggtaatgtc tgatgcgc ggttgcgtac gatctgaaac agataactca gttggccctt
3001 gaacgtatgttgc gtcgtatgtcg ggcgcgttgc cggccgttgc gtcaccacgc
3061 ttccggccggcggc ggcggccacc cgggtatgttgc ggcgcgttgc ttcaccacaa tcagtc
3121 gtcgacgaaac gcctggagaa ggggtgatgttgc acctgcgtt gtcggataactg gttccgtcat

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3181 ggaaatcacc ttgctgcgaa taggttaggg aagggcatcc ctgttaggcc tcctacatat
3241 cgggcaccaa attatgctta atgataatga ttgtcaaatg agaaggcgaa ctaatcttat
3301 gccttggcga aggtgtgaac cacgtctcgc tcccccccg cgactaatta ttgaaaggct
3361 ccgtccgttc tcattgggtga caggttcgtt agtacaacgg ccaaggacca gcacccgcag
3421 gaggaccaga tggttttta tcgtgcattc agcgtgttc agttcggagt cctcgcggga
3481 tgagtacgtc cctgcggctg cgccctgttt gcctgccccca ctcaggcgcc agcgcctcgg
3541 tctacgctcg ctggcgccgg gtgctgccgg actggctgca agtgtgcccgg ctggaattgc
3601 cgggacgcgg catgcgcatg gacgagccat tgcagcgcga taccagcccg gcccgtc

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FIGURE 6 (page 2 of 2)